

What is claimed is:

1. An apparatus for preventing pollution of a groundwater borehole comprising:

a first intake pipe for forming a groundwater borehole;

5 a second intake pipe fluid-communicatively coupled to the first intake pipe and closing an opening of the first intake pipe;

an underwater motor pump located inside the first intake pipe for discharging groundwater from the intake pipes to the
10 outside;

an induction pipe connector mounted inside the second intake pipe and connected with the motor pump for supporting the motor pump, the induction pipe connector having a discharge path for discharging the groundwater pumped up by the motor pump to
15 the outside of a side of the second intake pipe;

fixing means respectively mounted on a side surface of the induction connector and a side surface of the second intake pipe directed to each other for supporting the induction pipe connector to the second intake pipe in balance; and

20 a pressure controlling part mounted on the outer circumferences of the intake pipes in such a manner as to communicate with the second intake pipe via a portion adjacent to the induction pipe connector for uniformly controlling the inside pressure of the intake pipes.

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2. An apparatus for preventing pollution of a groundwater borehole according to claim 1, wherein the fixing

means includes a first protrusion protruding from the induction pipe connector and having a bended front end, and a first support protrusion protruding from the second intake pipe and having a bended front end corresponding and matched with the bended front end of the first protrusion.

3. An apparatus for preventing pollution of a groundwater borehole according to claim 1, wherein the fixing means includes a second protrusion protruding from the induction pipe connector and having an inclined front end, and a second support protrusion protruding from the second intake pipe and having an inclined front end corresponding with the inclined front end of the second protrusion in surface contact with each other.

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4. An apparatus for preventing pollution of a groundwater borehole according to claim 1, wherein the pressure controlling part includes: an air suction valve connected with the second intake pipe and having an automatic air suction valve for inhaling and supplying the outside air into the intake pipes in order to relieve a vacuum condition due to a drop of the water level inside the first intake pipe, and an exhaust valve 280b connected with the second intake pipe in parallel with the air suction valve and having an automatic valve for discharging the inside air of a high pressure state inside the intake pipes to the outside in order to relieve high pressure due to a rise of the water level inside the first intake pipe.

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5. An apparatus for preventing pollution of a groundwater borehole according to claim 4, wherein the air suction valve further includes a first ball top connected with the automatic air suction valve and having a first float for closing an opened air path of the automatic air suction valve according to the water level of the outside, and a gasproof filter connected with the first ball top.

10 6. An apparatus for preventing pollution of a groundwater borehole comprising:

a first intake pipe for forming a groundwater borehole;

15 a second intake pipe fluid-communicatively coupled to the first intake pipe and closing an opening of the first intake pipe;

an underwater motor pump located inside the first intake pipe for discharging groundwater from the intake pipes to the outside;

20 an induction pipe connector mounted inside the second intake pipe and connected with the motor pump for supporting the motor pump, the induction pipe connector having a discharge path for discharging the groundwater pumped up by the motor pump to the outside of a side of the second intake pipe;

25 fixing means respectively mounted on a side surface of the induction connector and a side surface of the second intake pipe directed to each other for supporting the induction pipe connector to the second intake pipe in balance; and

a second ball top mounted inside the upper portion of the second intake pipe adjacently to the induction pipe connector for connecting the inside and outside of the second intake pipe in order to uniformly control the inside pressure of the intake
5 pipes.

7. An apparatus for preventing pollution of a groundwater borehole according to claim 6, wherein the fixing means includes a first protrusion protruding from the induction
10 pipe connector and having a bended front end, and a first support protrusion protruding from the second intake pipe and having a bended front end corresponding and matched with the bended front end of the first protrusion.

15 8. An apparatus for preventing pollution of a groundwater borehole according to claim 6, wherein the fixing means includes a second protrusion protruding from the induction pipe connector and having an inclined front end, and a second support protrusion protruding from the second intake pipe and
20 having an inclined front end corresponding with the inclined front end of the second protrusion in surface contact with each other.

25 9. An apparatus for preventing pollution of a groundwater borehole according to claim 6, wherein the ball top includes a hollow casing mounted on the inner wall surface of the second intake pipe and having an air path for connecting the

inside and outside of the second intake pipe, and a second float located inside the casing and having a number of holes formed on the outer circumference thereof for closing the air path of the opened casing according to the water level of the outside, the
5 holes communicating with the air path of the casing.